## **AMENDMENTS TO THE CLAIMS**

- 1. (Original) A method for isolating a phosphorylated target molecule in a sample, said method comprising the steps of:
  - contacting said sample with a binding solution comprising a metal chelating moiety; a salt comprising trivalent metal ions, wherein said metal ion is capable of simultaneously binding said metal chelating moiety and a phosphorylated target molecule; and, an acid;
  - b) incubating said sample and said binding solution, to form a combined mixture, for a sufficient amount of time to allow said metal chelating moiety and said metal ion to associate with said phosphorylated target molecule;
  - c) separating said phosphorylated target molecules from unphosphorylated molecules by a chromatography means whereby said phosphorylated target molecule is isolated; and,
  - d) optionally determining a sequence of the isolated phosphorylated target molecule by a sequencing means.
- 2. (Original) The method according to Claim 1, wherein said chromatography means include a size exclusion column or a reverse phase HPLC column.
- 3. (Original) The method according to Claim 2, wherein said sequencing means utilizes a mass spectrometer.
- 4. (Original) The method according to Claim 1, wherein said metal chelating moiety is covalently bonded to a label and said method further comprises illuminating said label with a suitable light source whereby said bound phosphorylated target molecule is detected.
- 5. (Original) The method according to Claim 4, wherein said label is selected from the group consisting of a dye and a hapten.

- 6. (Original) The method according to Claim 5, wherein said dye is selected from the group consisting of a benzofuran, a quinazolinone, a xanthene, an indole, a benzazole and a borapolyazaindacene.
- 7. (Currently Amended) The method according to Claim 6, wherein said xanthene is selected from the group consisting of <u>a</u> fluorescein, <u>a</u> rhodol, <u>a</u> rosamine, <u>and a</u> rhodamine and derivatives thereof.
- 8. (Original) The method according to Claim 1, wherein said phosphorylated target molecule is selected from the group consisting of proteins, peptides, nucleotides, carbohydrates, phosphatase substrates, kinase substrates, lipids and inorganic phosphate.
- 9. (Original) The method according to Claim 1, wherein said metal chelating moiety is selected from the group consisting of BAPTA, IDA, DTPA and phenanthrolines.
- 10. (Original) The method according to Claim 7, wherein said binding solution has a pH about 3 to about pH 6.
- 11. (Original) The method according to Claim 8, wherein said metal ion is selected from the group consisting of Ga<sup>3+</sup>, Fe<sup>3+</sup> and Al<sup>3+</sup>.
- 12. (Original) The method according to Claim 9, wherein said salt is gallium chloride.

Claims 13-25. (Canceled)